

Claims

I Claim:

1) An auxiliary hinged assembly that when connected to the shaft implement end of the shovel, it allows the user to bolt to the swivel or non swivel mode, the auxiliary hinged assembly consists of:

a) A base template base plate, it can either be made to bolt to the shovel directly, or be elongated with two 90 degree bends and clamped to the main shovel shaft.

b) The auxiliary handle can be cut to a fixed length or be designed to be an adjustable length by using different sized conduit, and using a tapered compression joint to tighten the auxiliary handle for desired length, if the conduit has iron, you will need only to secure a ceramic magnet to the main handle.

c) A hinge to bolt to the base plate, and to secure the auxiliary handle with a clamp, wood screw, or bolt.

d) A metal attraction plate bolted with a counter sunk bolt to the auxiliary handle, and a magnet glued or bolted to the main handle, if auxiliary shaft contains iron, this would replace the need for an attraction plate, if making an adjustable length handle, etc...

2) The hinge is connected to the base template plate with one bolt, washer, and lock nut to be in the swivel mode, to make the hinge a non-swivel you simply add another bolt through the hinge through the base plate.

a) The hinge can be made shorter, it only needs to have two holes where it can be bolted to the base plate, and a means of attaching to the auxiliary handle to the hinge.

b) The base plate template needs to be flat, so the hinge rotates left and right, supporting the wrists because the auxiliary handle can only swivel left and right or up and down, but not clockwise or counter clockwise.